

Preparation of 1- α -hydroxy vitamin D₅ from Stigmasterol

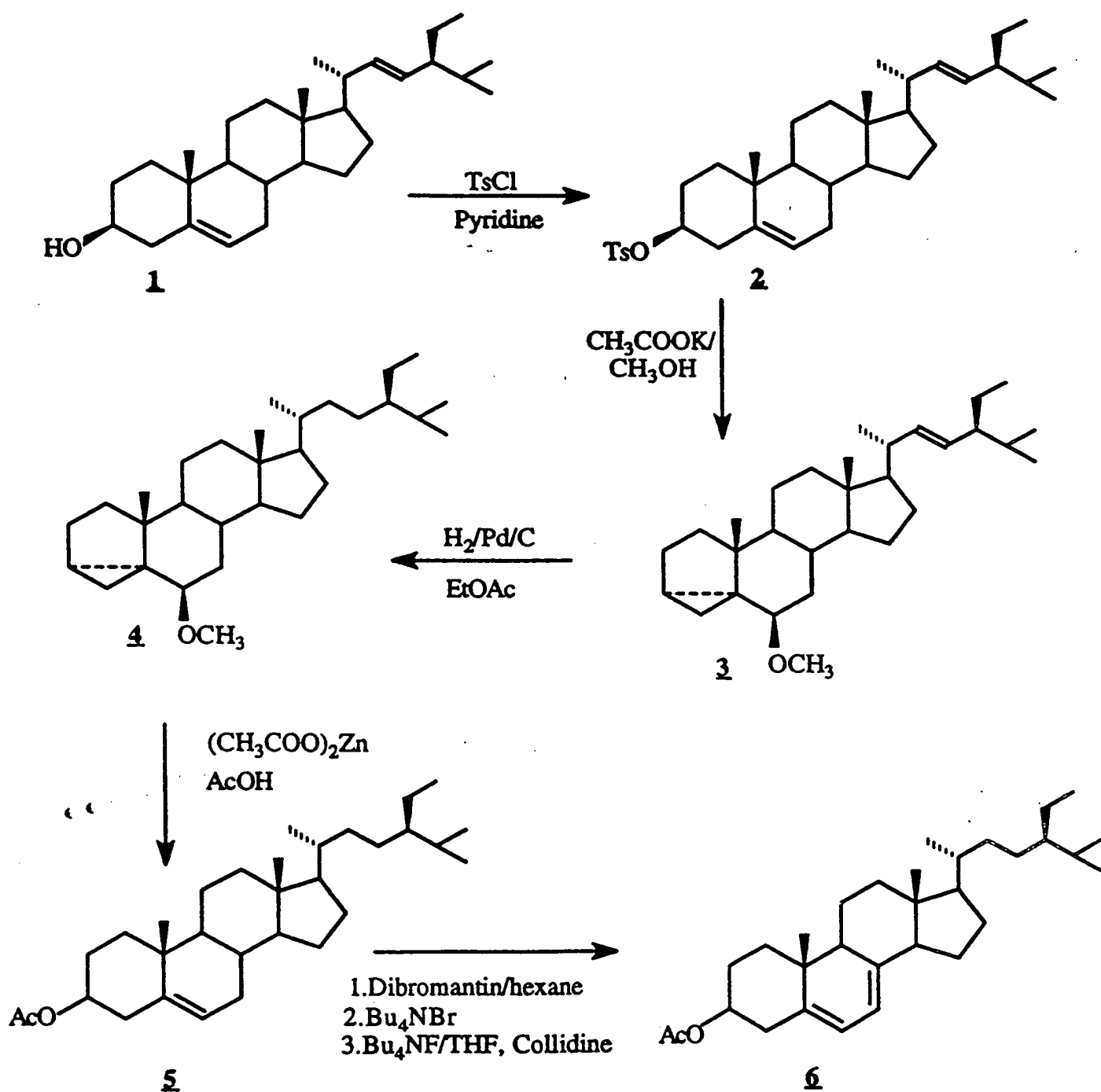
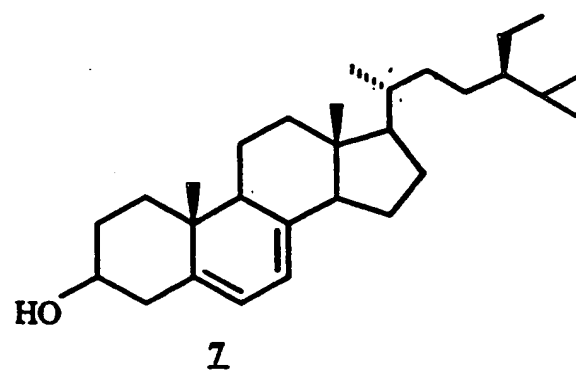
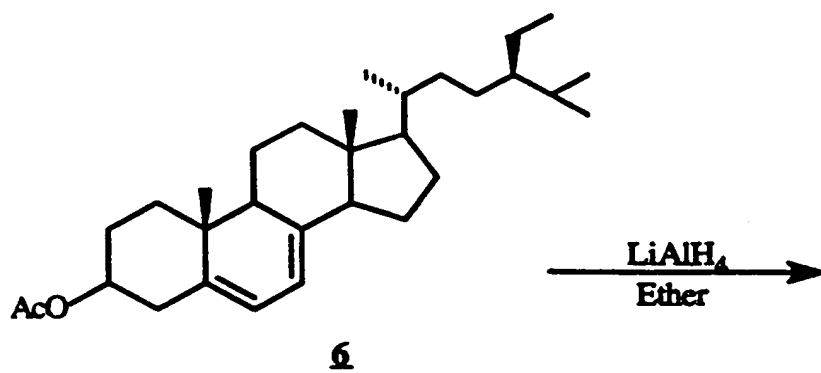
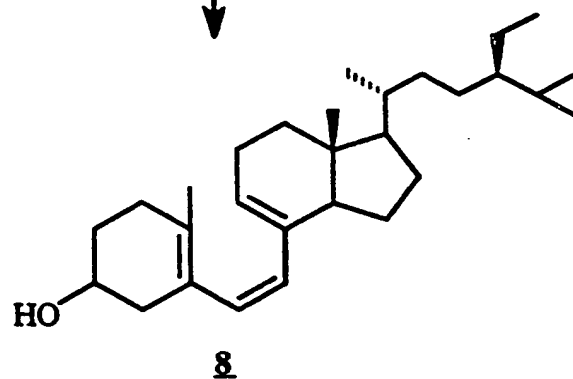


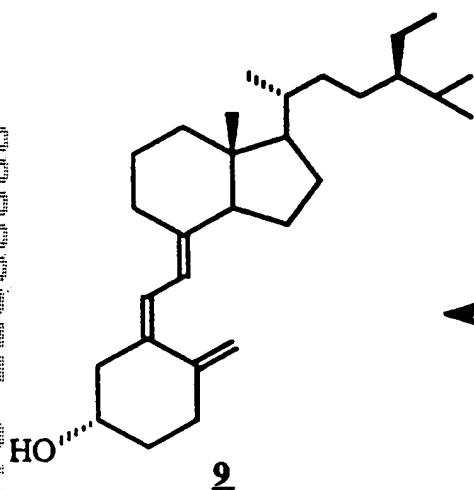
Figure 1



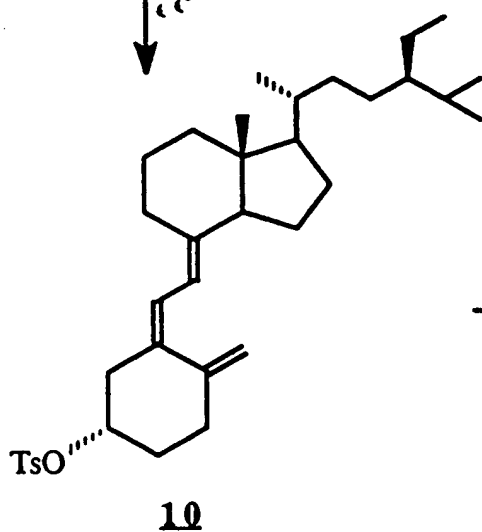
$h\nu, \text{Et}_2\text{O}, \text{Benzene}$



Δ, EtOH



TsCl/Pyridine



$\text{CH}_3\text{OH/NaHCO}_3, \Delta$

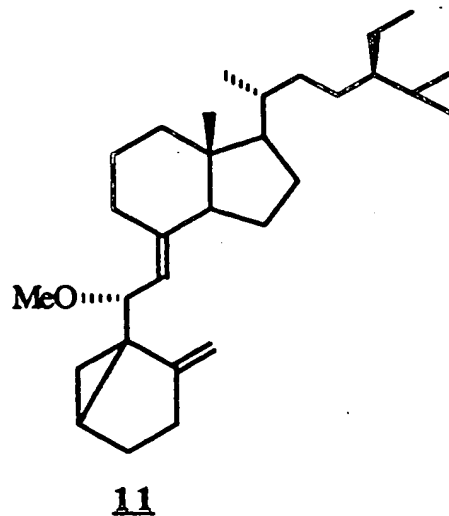


Figure 1 (cont.)

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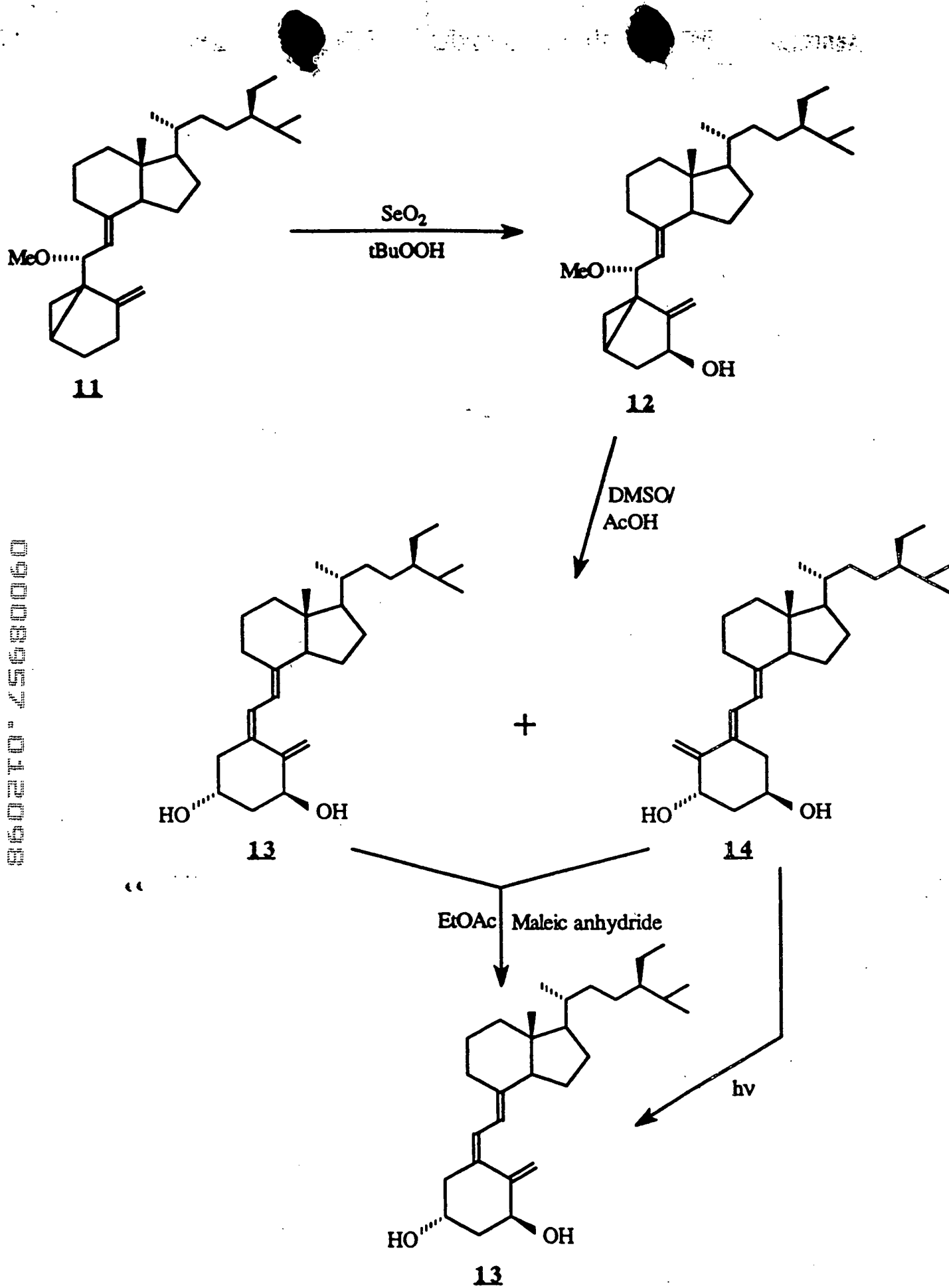
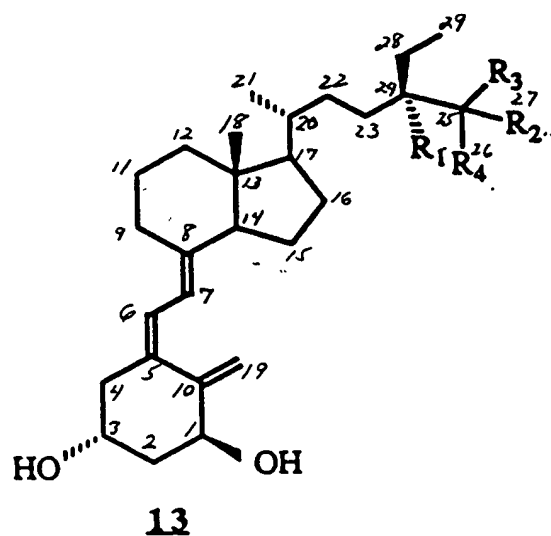


Figure 1 (cont.)

Figure 2



13: R₁=H; R₂=CH₃; R₃=CH₃; R₄=H

13a: R₁=H; R₂=OH; R₃=R₄=CH₃

13b: R₁=OH; R₂=H; R₃=R₄=CH₃

13c: R₁=OH; R₂=OH; R₃=R₄=CH₃

13d: R₁=H; R₂=OH; R₃=R₄=CF₃

13e: R₁=H; R₂=H; R₃=CH₂OH; R₄=CH₃